

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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S-E-C-R-E-T

25X1

COUNTRY USSR/Eastern Europe

REPORT

SUBJECT 1 Terminology for Electric Machinery

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1. The following reproduces, in English translation or with English equivalents supplied, an East German form for performance data plates of electric machines. The form contains instructions for foreign-language labels for such plates, tabulating designations or symbols in German, Russian, Bulgarian, Polish, Czech, Rumanian, English, French, and Spanish.

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Electric Machines
Performance Data Plates
Instructions for Foreign-Language Labels

GermanEnglish Translation

Warenzeichen 1 Hersteller

Typ 2 Nr 5 /19 A

3 4 7 V 8 11 cos ϕ 12 Hz

6 9 10 14 /min 15 A

13 16 17 18V 19 A

Isol 20 P21 22 Kg

23

Product 1 Manufacturer

Type 2 Nr 5 /19 A

3 4 7 V 8 11 cos ϕ 12 Hz

6 9 10 14 /min 15 A

13 16 17 18V 19 A

ins class 20 P21 22 Kg

23

Plate with Panel Designations
German Labels and English Translation
in Accordance with VEB-N 155 02

DESIGNATION OR SYMBOL

Panel	German	Russian	Bulgarian	Polish	Czech	Rumanian	English	French	Spanish	<u>English Equivalent, US</u>
2	Typ	Тип	Тип	Typ	Typ	Tip	Type	Type	Tipo	Type
3	G	Г	Г	Г	Г	Г	D.C.	CC	CC	DC
E	1 ϕ	1 ~	1 ~	1 ~	1 ~	1 ~	1ph.	1ph.	1f	single-phase
Type of Z	2 ϕ	2 ~	2 ~	2 ~	2 ~	2 ~	2ph.	2ph.	2f	two-phase
D	3 ϕ	3 ~	3 ~	3 ~	3 ~	3 ~	3ph.	3ph.	3f	three-phase
current S	6 ϕ	6 ~	6 ~	6 ~	6 ~	6 ~	6ph.	6ph.	6f	six-phase
GE	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ	ГЕ
4	Gen	ГЕН.	ГЕН.	Pradn.	GEN	G	Gen.	Gen.	Gen.	Gen.
Method of operation	Mot. Bl.M.	МOT. фаз.	МOT. фаз.	Siln. Faz.	MOT	M	Mot. Phase	Mot. Conv. de phases	Mot. Conv. de Fas.	Gen. <u>generator</u> Mot. <u>motor</u> phase converter
U	ГП.	ГП.	ГП.	Przetw. KONV	CC	Comp. de fază	Conv. Motor	Conv. en Cascade	Conv. en Cascade	motor converter
5	Nr.	Nº	Nº	Nr	ČIS.	Nr	Nº	Nº	Nám	No. (number)
6	1	1	1	1	1	1	1	1	1	1
Type of circuit	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23

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Panel	German	Russian	Bulgarian	Polish	Czech	Rumanian	English	French	Spanish	English Equivalent US
	Y	Y	Y	Y	Y	Y				
	Y	Y	Y	Y	Y	Y				
	△	△	△	△		△				
	○	○	○	○		○				
	*	*	*	*		*				
	I^n					I^n				
7	V	B	B	V	V	V	V	V	V	V [v]
8	A	α	α	A	A	A	A	A	A	A [a]
10	kW kVA	KBT BT KBA BA	KBT BT KBO BA	kW W kVA VA	kW W kVA VA	kW W kVA VA	kW W HP ¹ kVA VA	kW W CV ¹ kVA VA	kW W	kw kva
11	DB ² * KB*	ДБМТ ² КР	ДРД КР	C D... ³	∞ min K 30min	2) D _s	Cont.	RP S. disc.	SC S. lido.	continuous constant (uninterrupted) continuous and uninterrupted intermittent continuous-intermittent
Type of operation	DKB* AB* DAB*	ХО/МКР ПРР ДРД ПРРД	ПРР	P... ⁴	60% K 10 min	D _A	int.	int.	int.	
12	cos φ	cos φ		cos φ	cos φ	cos φ	cos φ	cos φ	cos φ	cos
13	↔					dr st		clockwise from drive side counterclockwise from drive side		
14	U/min	0.5/MVH	0.5/MVH.	obr/min	ot./min	rot/min	rpm	rev/m	rpm	rpm
15	Hz	Гц	геп/сек	Hz	Hz	Hz	c/s	Hz	per/s	cps
16	Err (bei G) B030 Läufer od. Läufer (bei As-Masch)	POT	POT	Wzb Wirm.	Buzeni Rot.	ex rot.	Excit. Rot.	Excit. Rot.	Exc. Rot.	excitation (in DC) armature or rotor (in induction motors)
17	Type of circuit (circuit symbol, see Panel 6) of the armature winding, if there is no three-phase circuit.									
18	In DC machines: nominal excitation voltage in the case of self-excitation or external excitation. In synchronous machines: nominal excitation voltage. In induction machines: rotor stoppage voltage.									

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English
Equivalent

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Panel	German	Russian	Bulgarian	Polish	Czech	Rumanian	English	French	Spanish	US
19	In DC machines: excitation current at nominal operation, in generators and motors for rpm-control. In synchronous machines: excitation current at nominal operation. In induction machines: rotor current at nominal operation.									
20	Isol.-Kl. zB. A/B Ständer	Кл. изоляц. К/М 30л.	Кл. изол.	Yrida isol.	cl. izol	ins. cl.	Cl. d'isol (or) St. Cl... Rot. Cl...			insulation class
21	Schutzart PO, A P....	БН, А 30л/МТб1	будова	Provedeni	P...	type of enclosure	Genre de protection			type of enco- sure of shield- ing
22	Kg wenn<lt t, wenn>lt	КГ Т	КГ Т	kg	kg	kg	kg	kg	kg, when under one ton t, when equal to or more than one ton	
23	Kühlmittel- menge M3/c (or) л/мин	ПДС. Охлаждающ. М3/с (или) л/мин	ПДС. Охлаждающ. М3/с (или) л/мин	Wydatek czynnika chłodz. prostr	Množství chlad prostr	amount of cooling agent	Consomma- tion du réfrigérant			amount of coolant
	Brems- system Funkstör- grad FG, FN, FK	ТОРМ. СМСТ. YPOB. ПД, А FG, FN, FK	СПИР. СМСТ. НМБОНА ПО-НО СМУДЗНН	homo- wanie poziom zakłocen	Brzda "Odruseni	brake system	système dufrein			brake system degree of interference, interference level

- 1) Horsepower
- 2) No specification
- 3) and compatible operating time
- 4) and relative duration of operation

Standard size, material, design in accordance with VEM-N 166 02. Designation of a Performance Data Plate, size 3, from Ms with English labelling:

"Leistungsschild 3 VEM-N 104 03 Ms-engl."

Comment: Abbreviations for the following German terms: DB--Dauerbetrieb;
KB--Konstantbetrieb; DKB--Dauer-Konstantbetrieb; AB--Aussetzender Betrieb; DAB--Dauer-
aussetzender Betrieb. English equivalents as shown in tabulation.

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